

IN THE CLAIMS:

Please cancel claim 1 and add new claims 2-12 as follows:

1. (Canceled)
2. (New) A radiating device for irradiating a cavity comprising:
a catheter;
an antenna, situated at a distal portion of the catheter, for irradiating the cavity;
a central channel adapted to provide a fluid to the cavity;
a side channel adapted to receive the fluid from the cavity;
at least one side branch, situated at a proximal portion of the catheter; and
at least one temperature sensing device, having an end, the end of the at least
one temperature sensing device extending outward from the catheter after the catheter
is inserted into the cavity;
wherein the end of the at least one temperature sensing device is adapted to
detect a temperature of a wall of the cavity irradiated by the antenna.
3. (New) The radiating device according to claim 2 wherein the at least one
side branch provides an inlet for the fluid to enter the central channel.
4. (New) The radiating device according to claim 2 wherein the at least one
side branch provides an outlet for the fluid to exit from the side channel.

5. (New) The radiating device according to claim 2 further comprising:
an inflatable balloon situated at the distal portion of the catheter;
a second side channel adapted to provide a fluid used to inflate the inflatable
balloon; and
a one-way valve for introducing the fluid used to inflate the inflatable balloon to
the second side channel.
6. (New) The radiating device according to claim 5 wherein the fluid used to
inflate the inflatable balloon is a liquid.
7. (New) The radiating device according to claim 5 wherein the fluid used to
inflate the inflatable balloon is a gas.
8. (New) The radiating device according to claim 2 wherein the fluid
comprises a conditioning liquid.
9. (New) The radiating device according to claim 2 wherein the fluid
comprises a solution of a selective cytotoxicity substance.
10. (New) The radiating device according to claim 2 wherein the antenna
comprises a linear dipole antenna.

11. (New) The radiating device according to claim 10 wherein the linear dipole antenna comprises a coil-shaped segment.

12. (New) The radiating device according to claim 2 further comprising a stainless steel wire coupled to the at least one temperature sensing device.